

IN THE CLAIMS:

Amendments to the Claims

Please cancel claims 3 - 25, 28 - 31 and 36 - 39 without prejudice or disclaimer of the subject matter thereof, rewrite claims 26, 27, 32 and 33 in independent form and add the following new claims 40 - 45.

Listing of Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1 and 2 (canceled)

Claims 3 - 25 (canceled)

26. (currently amended) An image displaying display apparatus as set forth in claim 18, having a display controller for converting an image data into a display data, an image converting circuit and a display panel, comprising:

a frame memory feeding data having different resolution on said display panel and a dynamic image/still image discriminating circuit;

said display panel including a signal driver applying an image data signal to at least one signal line, a control signal driver applying a scanning signal to at least one scanning line and a pixel selection driver for applying a display block selection signal to at least one selection signal line;

said display panel taking a predetermined number of pixels among a plurality of pixels having a pixel electrode arranged in matrix fashion as one block unit, and one screen image of a plurality of one block units for displaying is formed by combining a region for displaying the same information on a plurality of pixels in one of said one block units during one scanning period and a region for permitting display

of respectively different information on a plurality of pixels in an other one of said one block units;

a lighting device provided on a back surface;

a pair of transparent substrates having a polarizing panel;

a liquid crystal layer disposed between said pair of transparent substrates;

one of said pair of transparent substrates having a plurality of said scanning lines;

first signal lines and second signal lines formed with a plurality of said scanning lines in a form of a matrix;

a plurality of first switches formed corresponding to intersections of said plurality of said scanning lines and a plurality of said first signal lines;

a plurality of second switches formed between a plurality of said second signal lines and a plurality of said first switches;

a pixel electrode connected to a plurality of said first switches or a plurality of said second switches;

an opposed electrode connected to a plurality of said first switches or a plurality of said second switches;

an electric field being applied between said pixel electrode and said opposed electrode; and

an image being displayed by controlling an orienting condition of said liquid crystal;

wherein said lighting device has light emission control means for shifting a light emitting region in synchronism with the scanning signal applied to said scanning line.

27 (currently amended) An image displaying display apparatus as set forth in claim 19, a display controller for converting an image data into a display data, an

image converting circuit and a display panel, comprising:

a frame memory feeding data having different resolution on said display panel and a dynamic image/still image discriminating circuit;

said display panel including a signal driver applying an image data signal to at least one signal line, a control signal driver applying a scanning signal to at least one scanning line and a pixel selection driver for applying a display block selection signal to at least one selection signal line;

said display panel taking a predetermined number of pixels among a plurality of pixels having a pixel electrode arranged in matrix fashion as one block unit, and one screen image of a plurality of one block units for displaying is formed by combining a region for displaying the same information on a plurality of pixels in one of said one block units during one scanning period and a region for permitting display of respectively different information on a plurality of pixels in an other one of said one block units;

a lighting device provided on a back surface;

a pair of transparent substrates having a polarizing panel;

a liquid crystal layer disposed between said pair of transparent substrates;

one of said pair of transparent substrates having a plurality of said scanning lines;

first signal lines and second signal lines formed with a plurality of said scanning lines in a form of a matrix;

a plurality of first switches formed corresponding to intersections of said plurality of said scanning lines and a plurality of said first signal lines;

a plurality of second switches formed between a plurality of said second signal lines and a plurality of said first switches;

a pixel electrode being connected to a plurality of said second switches;

an opposed electrode on one of said pair of transparent substrates;

an electric field being applied between said pixel electrode and said opposed electrode; and

an image being displayed by controlling an orienting condition of said liquid crystal;

wherein said lighting device has light emission control means for shifting a light emitting region in synchronism with the scanning signal applied to said scanning line.

Claims 28 - 31 (canceled)

32. (currently amended) An image displaying display apparatus as set forth in claim 28, having a display controller for converting an image data into a display data, an image converting circuit and a display panel, comprising:

a frame memory feeding data having different resolution on said display panel and a dynamic image/still image discriminating circuit;

said display panel including a signal driver applying an image data signal to at least one signal line, a control signal driver applying a scanning signal to at least one scanning line and a pixel selection driver for applying a display block selection signal to at least one selection signal line;

said display panel taking a predetermined number of pixels among a plurality of pixels having a pixel electrode arranged in matrix fashion as one block unit, and one screen image of a plurality of one block units for displaying is formed by combining a region for displaying the same information on a plurality of pixels in one of said one block units during one scanning period and a region for permitting display of respectively different information on a plurality of pixels in an other one of said one block units;

a lighting device provided on a back surface;

a pair of transparent substrates having a polarizing panel;
a liquid crystal layer disposed between said pair of transparent substrates;
one of said pair of transparent substrates having a plurality of said scanning
lines;
first signal lines and second signal lines formed with a plurality of said
scanning lines in a form of matrix;
a plurality of switches formed corresponding to intersections of said plurality of
said scanning lines and a plurality of said first signal lines;
said pixel electrode being connected to a plurality of said switches;
an opposed electrode formed on one of said pair of transparent substrates
and divided per a plurality of pixels;
an electric field being applied between said pixel electrode and said opposed
electrode; and
an image being displayed by controlling an orienting condition of said liquid
crystal;

wherein said lighting device has lighting control means for moving a light emitting region in synchronism with a scanning signal applied to said scanning line.

33. (currently amended) An image displaying display apparatus as set forth in claim 28, having a display controller for converting an image data into a display data, an image converting circuit and a display panel, comprising:
a frame memory feeding data having different resolution on said display panel
and a dynamic image/still image discriminating circuit;
said display panel including a signal driver applying an image data signal to at
least one signal line, a control signal driver applying a scanning signal to at least one
scanning line and a pixel selection driver for applying a display block selection signal
to at least one selection signal line;

said display panel taking a predetermined number of pixels among a plurality of pixels having a pixel electrode arranged in matrix fashion as one block unit, and one screen image of a plurality of one block units for displaying is formed by combining a region for displaying the same information on a plurality of pixels in one of said one block units during one scanning period and a region for permitting display of respectively different information on a plurality of pixels in an other one of said one block units;

a lighting device provided on a back surface;
a pair of transparent substrates having a polarizing panel;
a liquid crystal layer disposed between said pair of transparent substrates;
one of said pair of transparent substrates having a plurality of said scanning lines;
first signal lines and second signal lines formed with a plurality of said scanning lines in a form of matrix;
a plurality of switches formed corresponding to intersections of said plurality of said scanning lines and a plurality of said first signal lines;
said pixel electrode being connected to a plurality of said switches;
an opposed electrode formed on one of said pair of transparent substrates and divided per a plurality of pixels;
an electric field being applied between said pixel electrode and said opposed electrode; and
an image being displayed by controlling an orienting condition of said liquid crystal;
wherein a selection signal level to be applied to said scanning line controlling condition of said switch and a selection signal level to be applied to said opposed electrode are selection signal levels having at least two values; and

wherein a level shifter is provided for varying level of an image data signal to be applied to said signal line adapting to the selection signal level of said opposed electrode.

34. (previously presented) An image displaying apparatus as set forth in claim 33, wherein one block unit is formed with predetermined number of pixels, said scanning line selection signal level and said opposed electrode signal level for the same display on a plurality of pixels in said one block unit in one scanning period and said scanning line selection signal level and said opposed electrode signal level for selecting arbitrary pixel in said one block unit, and switching means is provided for switching the region for the same display on a plurality of pixels in said one block unit in one scanning period and the region permitting different display on a plurality of pixels in one block unit for a plurality times of scan.

35. (original) An image display apparatus as set forth in claim 33, wherein said lighting device has lighting control means for moving a light emitting region in synchronism with a scanning signal applied to said scanning line.

Claims 36 - 39 (canceled)

40. (new) An image display apparatus having a display controller for converting an image data into a display data, an image converting circuit and a display panel, comprising:
a frame memory feeding data having different resolution on said display panel and a dynamic image/still image discriminating circuit;

said display panel including a signal driver applying an image data signal to at least one signal line, a control signal driver applying a scanning signal to at least one scanning line and a pixel selection driver for applying a display block selection signal to at least one selection signal line;

 said display panel taking a predetermined number of pixels among a plurality of pixels having a pixel electrode arranged in matrix fashion as one block unit, and one screen image of a plurality of one block units for displaying is formed by combining a dynamic image region for displaying the same information on a plurality of pixels in one of said one block units during one scanning period and a still image region for permitting display of respectively different information on a plurality of pixels in an other of said one block units;

 wherein said dynamic image region is displayed on the basis of dynamic image data from said dynamic image/still image discriminating circuit; and

 wherein said still image region is displayed on the basis of still image data from said frame memory;

 a lighting device provided on a back surface;
 a pair of transparent substrates having a polarizing panel;
 a liquid crystal layer disposed between said pair of transparent substrates;
 one of said pair of transparent substrates having a plurality of said scanning lines;

 first signal lines and second signal lines formed with a plurality of said scanning lines in a form of a matrix;

 a plurality of first switches formed corresponding to intersections of said plurality of said scanning lines and a plurality of said first signal lines;

 a plurality of second switches formed between a plurality of said second signal lines and a plurality of said first switches;

· a pixel electrode connected to a plurality of said first switches or a plurality of said second switches;

an opposed electrode connected to a plurality of said first switches or a plurality of said second switches;

an electric field being applied between said pixel electrode and said opposed electrode; and

an image being displayed by controlling an orienting condition of said liquid crystal;

wherein said lighting device has light emission control means for shifting a light emitting region in synchronism with the scanning signal applied to said scanning line.

41. (new) An image display apparatus having a display controller for converting an image data into a display data, an image converting circuit and a display panel, comprising:

a frame memory feeding data having different resolution on said display panel and a dynamic image/still image discriminating circuit;

said display panel including a signal driver applying an image data signal to at least one signal line, a control signal driver applying a scanning signal to at least one scanning line and a pixel selection driver for applying a display block selection signal to at least one selection signal line;

said display panel taking a predetermined number of pixels among a plurality of pixels having a pixel electrode arranged in matrix fashion as one block unit, and one screen image of a plurality of one block units for displaying is formed by combining a dynamic image region for displaying the same information on a plurality of pixels in one of said one block units during one scanning period and a still image

region for permitting display of respectively different information on a plurality of pixels in an other of said one block units;

wherein said dynamic image region is displayed on the basis of dynamic image data from said dynamic image/still image discriminating circuit; and

said still image region is displayed on the basis of still image data from said frame memory;

a lighting device provided on a back surface;

a pair of transparent substrates having a polarizing panel;

a liquid crystal layer disposed between said pair of transparent substrates;

one of said pair of transparent substrates having a plurality of said scanning lines;

first signal lines and second signal lines formed with a plurality of said scanning lines in a form of a matrix;

a plurality of first switches formed corresponding to intersections of said plurality of said scanning lines and a plurality of said first signal lines;

a plurality of second switches formed between a plurality of said second signal lines and a plurality of said first switches;

a pixel electrode being connected to a plurality of said second switches;

an opposed electrode on one of said pair of transparent substrates;

an electric field being applied between said pixel electrode and said opposed electrode; and

an image being displayed by controlling an orienting condition of said liquid crystal;

wherein said lighting device has light emission control means for shifting a light emitting region in synchronism with the scanning signal applied to said scanning line.

42. (new) An image display apparatus having a display controller for converting an image data into a display data, an image converting circuit and a display panel, comprising:

a frame memory feeding data having different resolution on said display panel and a dynamic image/still image discriminating circuit;

said display panel including a signal driver applying an image data signal to at least one signal line, a control signal driver applying a scanning signal to at least one scanning line and a pixel selection driver for applying a display block selection signal to at least one selection signal line;

said display panel taking a predetermined number of pixels among a plurality of pixels having a pixel electrode arranged in matrix fashion as one block unit, and one screen image of a plurality of one block units for displaying is formed by combining a dynamic image region for displaying the same information on a plurality of pixels in one of said one block units during one scanning period and a still image region for permitting display of respectively different information on a plurality of pixels in an other of said one block units;

wherein said dynamic image region is displayed on the basis of dynamic image data from said dynamic image/still image discriminating circuit; and

wherein said still image region is displayed on the basis of still image data from said frame memory;

a lighting device provided on a back surface;

a pair of transparent substrates having a polarizing panel;

a liquid crystal layer disposed between said pair of transparent substrates;

one of said pair of transparent substrates having a plurality of said scanning lines;

first signal lines and second signal lines formed with a plurality of said scanning lines in a form of matrix;

· a plurality of switches formed corresponding to intersections of said plurality of said scanning lines and a plurality of said first signal lines;

· said pixel electrode being connected to a plurality of said switches;

· an opposed electrode formed on one of said pair of transparent substrates and divided per a plurality of pixels;

· an electric field being applied between said pixel electrode and said opposed electrode; and

· an image being displayed by controlling an orienting condition of said liquid crystal;

wherein said lighting device has lighting control means for moving a light emitting region in synchronism with a scanning signal applied to said scanning line.

43. (new) An image display apparatus having a display controller for converting an image data into a display data, an image converting circuit and a display panel, comprising:

a frame memory feeding data having different resolution on said display panel and a dynamic image/still image discriminating circuit;

said display panel including a signal driver applying an image data signal to at least one signal line, a control signal driver applying a scanning signal to at least one scanning line and a pixel selection driver for applying a display block selection signal to at least one selection signal line;

said display panel taking a predetermined number of pixels among a plurality of pixels having a pixel electrode arranged in matrix fashion as one block unit, and one screen image of a plurality of one block units for displaying is formed by combining a dynamic image region for displaying the same information on a plurality of pixels in one of said one block units during one scanning period and a still image region for permitting display of respectively different information on a plurality of

pixels in an other of said one block units;

wherein said dynamic image region is displayed on the basis of dynamic image data from said dynamic image/still image discriminating circuit; and

wherein said still image region is displayed on the basis of still image data from said frame memory;

a lighting device provided on a back surface;

a pair of transparent substrates having a polarizing panel;

a liquid crystal layer disposed between said pair of transparent substrates;

one of said pair of transparent substrates having a plurality of said scanning lines;

first signal lines and second signal lines formed with a plurality of said scanning lines in a form of matrix;

a plurality of switches formed corresponding to intersections of said plurality of said scanning lines and a plurality of said first signal lines;

said pixel electrode being connected to a plurality of said switches;

an opposed electrode formed on one of said pair of transparent substrates and divided per a plurality of pixels;

an electric field being applied between said pixel electrode and said opposed electrode; and

an image being displayed by controlling an orienting condition of said liquid crystal;

wherein a selection signal level to be applied to said scanning line controlling condition of said switch and a selection signal level to be applied to said opposed electrode are selection signal levels having at least two values; and

wherein a level shifter is provided for varying level of an image data signal to be applied to said signal line adapting to the selection signal level of said opposed electrode.

44. (new) An image displaying apparatus as set forth in claim 43, wherein one block unit is formed with predetermined number of pixels,

 said scanning line selection signal level and said opposed electrode signal level for the same display on a plurality of pixels in said one block unit in one scanning period and said scanning line selection signal level and said opposed electrode signal level for selecting arbitrary pixel in said one block unit, and

 switching means is provided for switching the region for the same display on a plurality of pixels in said one block unit in one scanning period and the region permitting different display on a plurality of pixels in one block unit for a plurality times of scan.

45. (new) An image display apparatus as set forth in claim 43, wherein said lighting device has lighting control means for moving a light emitting region in synchronism with a scanning signal applied to said scanning line.